



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
25063 CENTER RIDGE ROAD
WESTLAKE, OH 44145-4114

February 14, 2017

MEMORANDUM

SUBJECT: Clean Air Act Monitoring, American Electric Power, Conesville, Ohio

FROM: Katharina Bellairs, Environmental Engineer (ME-W) *KB*

THRU: Mark Conti, Lead Environmental Engineer (ME-W) *MCC*

TO: Air Enforcement and Compliance Assurance Branch, IL/TN Section (AE-18J)
Nathan Frank, Section Chief

On December 17, 2015, I performed off-site visible emission readings under the Clean Air Act at American Electric Power, Conesville, Ohio, at Ethan Chatfield's request. My findings are attached.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
25063 CENTER RIDGE ROAD
WESTLAKE, OHIO 44145**

DATE: February 14, 2017

SUBJECT: CLEAN AIR ACT OFF-SITE MONITORING EVALUTION REPORT
American Electric Power – Conesville Generating Station

FROM: Katharina Bellairs, Environmental Engineer
OECA – Cleveland Office

THRU: Mark Conti, Lead Environmental Engineer
OECA – Cleveland Office

TO: Nathan Frank, Section Chief
Air & Radiation Division, AECAB (IL/IN)

BASIC INFORMATION

Facility Name: American Electric Power – Conesville Generating Station

Facility Location: 47201 County Road 273, Conesville, Ohio

Date of Inspection: December 17, 2015

Lead Monitor: Katharina Bellairs, Environmental Engineer

Purpose of Monitoring Evaluation: Perform Method 9 and Alternative Method 082 Opacity Readings

Facility Type: Electric Generating Station

Arrival Time: approximately 2:45 p.m. EST

Departure Time: approximately 3:30 p.m. EST

MONITORING INFORMATION

Field Measurements: were taken during this inspection.

I performed Method 9 visible emissions readings and Method 082 alternative visible emission readings with Virtual Technology's Opacity camera from 2:54 p.m. EST to 3:27 p.m. EST. My reading location was at 40.180086, -81.899749. Before the reading, I drove around the facility

and noted opacity was only coming from the middle stack that had no white ring at the top of the stack.

SIGNATURES

Lead Monitor: _____ Date: _____

Lead Environmental Engineer: Mark Conter Date: 2-15-2017

APPENDICES AND ATTACHMENTS

Method 9 Visible Opacity Reading Sheets

VISIBLE EMISSION OBSERVATION FORM

No.

COMPANY NAME
AEP Conesville

STREET ADDRESS
47201 County Rd 273-Stack

288 & 483C Roads-reader

CITY
Conesville

STATE
OH

ZIP
43211

PHONE (KEY CONTACT)

SOURCE ID NUMBER

PROCESS EQUIPMENT
Middle Stack

OPERATING MODE
OP.

CONTROL EQUIPMENT

OPERATING MODE

DESCRIBE EMISSION POINT
Middle stack,

gray plume after stream

HEIGHT ABOVE GROUND LEVEL
1223 ft

HEIGHT RELATIVE TO OBSERVER
Start **1219'** End **1219'**

DISTANCE FROM OBSERVER
Start **7255'** End **7255'**

DIRECTION FROM OBSERVER
Start **70°** End **70°**

DESCRIBE EMISSIONS

Start **gray smoke** End **gray smoke**

EMISSION COLOR
Start **gray** End **gray**

IF WATER DROPLET PLUME
Attached ☒ Detached ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start End

DESCRIBE PLUME BACKGROUND

Start **Blue sky** End **Blue sky**

BACKGROUND COLOR
Start **Blue** End **Blue**

SKY CONDITIONS
Start **Clear** End **clear**

WIND DIRECTION
Start **9** End **9**

WIND SPEED
Start **9** End **9**

WIND DIRECTION
Start **NW** End **NW**

AMBIENT TEMP
Start **37°F** End **37°F**

WET BULB TEMP
30°F

RH, percent
60%

Stack with Plumes

Sun

Wind

SOURCE LAYOUT SKETCH

Draw North Arrow

Emission Point

Observer's Position

140°

Sun Location Line

KB 11/16/16

ADDITIONAL INFORMATION

Matched sun angle & north arrow

in/1082 recording

KB 11/17/16

OBSERVATION DATE 12/17/16				START TIME 3:11 pm	END TIME 3:29 pm
SEC	0	15	30	45	COMMENTS
1	45	50	45	55	reading
2	45	50	60	55	middle
3	55	50	45	50	stack
4	50	55	55	50	opacity
5	60	55	45	45	only from
6	45	45	40	45	middle
7	40	35	40	45	stack
8	45	55	45	30	plume
9	40	40	30	25	viewable
10	55	40	50	45	from plant
11	40	45	45	40	drine
12	35	20	20	35	around
13	40	35	35	30	
14	30	15	20	15	
15	40	35	30	35	
16	40	40	30	20	
17	35	35	30	40	
18	35	30	25	25	
19					
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30					

OBSERVER'S NAME (PRINT)
Katharina Bellairs

OBSERVER'S SIGNATURE
[Signature]

DATE
12/17/16

ORGANIZATION
US EPA

CERTIFIED BY
Whitlow Enterprises

DATE
10/21/15

CONTINUED ON VEO FORM NUMBER
end